

The cooling apparatus for illumination system of optical engine of the present invention includes: an illumination system that has a lamp base for its light source, wherein the lamp base has an air duct body fixed on one side of the lamp base, wherein there is at least one partition separating the air duct body into a plurality of air ducts of different surface areas, and an external air duct extending one of the air ducts from underneath the air duct body to outside of the air duct body, wherein a fan installed on the air duct body takes in air through each of the air ducts and the external air duct to cool the illumination system , thus improving the cooling efficiency of the fans, while reducing the volume of cooling air needed from the fans, lowering the cost and reducing the noise from the fans.

## Figures